In The Matter Of:

Town of Stoneham Board of Appeals Weiss Farm Apartments, LLC, Re 170 Franklin Street

Public Hearing, Volume VI October 1, 2015 Comprehensive Permit Request



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Volume VI Pages 6-1 through 6-92 TOWN OF STONEHAM BOARD OF APPEALS Public Hearing Re Comprehensive Permit Request by Weiss Farm Apartments, LLC With Regard to 170 Franklin Street Board Members Present: Robert Saltzman, Chairman Laurence Rotondi Tobin Shulman William Sullivan Michael Dufour Catherine Rooney, Secretary Huggins & Witten, LLC (by Jonathan Witten, Esq.) 156 Duck Hill Road, Duxbury, MA 02332, jon@hugginsandwitten.com, 781.934.0084, for the Board. Cicatelli & Cicatelli (by Steven L. Cicatelli, Esq.) 266 Main Street, Stoneham, MA 02180-3502, scicatelli@cicatelli.com, 781.438.4060 - and -Rackemann Sawyer & Brewster (by Richard J. Gallogly, Esq.) 160 Federal Street, Boston, MA 02110-1700, rgallogly@rackemann.com, 617.951.1172, for the Applicant. Held at: Stoneham Town Hall 35 Central Street Stoneham, Massachusetts Thursday, October 1, 2015 7:35 p.m. Carol H. Kusinitz

Registered Professional Reporter

1	PROCEEDINGS
2	CHAIRMAN SALTZMAN: Good evening. Welcome,
3	everybody, to the Stoneham Board of Appeals. This
4	is the continuation of a hearing on a Comprehensive
5	Permit for 170 Franklin Street.
6	Before we start, I would like to see if we
7	can reach some kind of consensus on meetings for the
8	remainder of this month.
9	It seemed to me that we probably the
10	ambition here would be to see if we could wrap up
11	traffic, at least finish it for the time being, at
12	the next meeting, and we'd also combine that with
13	the architects who were here the last time.
14	I'm looking at the week of the 14th. So the
15	15th or 16th, did we discuss those?
16	MS. ROONEY: You can't do the 14th.
17	CHAIRMAN SALTZMAN: Wait a minute. I've
18	got the wrong month.
19	MR. CICATELLI: Our architect is available
20	on the 14th. That's the only day that week.
21	MS. ROONEY: We can't do the 14th.
22	CHAIRMAN SALTZMAN: How about the 15th?
23	The Thursday night football fans will be
24	disappointed yet again.

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3
1
             MR. CICATELLI: The architect can only make
2
    it the 14th that week. So he wouldn't be available
3
    the 15th if you wanted to discuss architecture.
             CHAIRMAN SALTZMAN: What about the 13th?
 4
5
             MS. ROONEY: That's good.
             MR. SULLIVAN: He's only available one day
6
7
    that week.
             MR. CICATELLI: The 14th is the only day
8
    that particular week. And then the 20th or 21st
9
    he's available.
10
11
             CHAIRMAN SALTZMAN:
                                  The 21st?
                                             20th?
             MS. ROONEY: The 20th is good.
12
13
             CHAIRMAN SALTZMAN: All right. 20th, going
    once? Does that work?
14
             MR. SHULMAN:
15
                           Yes.
16
             MR. DUFOUR: Should be fine.
             CHAIRMAN SALTZMAN:
                                  Time certain, 7:30?
17
             MR. MAHONEY: Architecture, yes. Our
18
    traffic consultant has another evening meeting that
19
20
    night. So perhaps we could do architecture?
21
             CHAIRMAN SALTZMAN: Well, you know, what
22
    we're anticipating is that we've got -- those would
23
    probably be good things to combine, given that we're
    not anticipating that we'd be spending much more
24
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	4
1	than an hour on each of them. So those would kind
2	of lend themselves to a combined meeting. And
3	they're fresh in everybody's minds. We could get
4	them off the plate and move on.
5	What about the 8th?
6	MR. CICATELLI: The 28th?
7	CHAIRMAN SALTZMAN: The 8th.
8	MR. MAHONEY: If we're going to discuss
9	traffic, it would depend how long Mr. Dirk needs to
10	review the response we submitted.
11	CHAIRMAN SALTZMAN: Any other time that
12	week? Would the 7th work?
13	MR. SULLIVAN: What about Mr. Dirk? Is he
14	going to there's one more, right, one more
15	response that we're waiting on? Is that what I
16	read?
17	CHAIRMAN SALTZMAN: Would that be enough
18	time, Mr. Dirk, for you to review?
19	MR. DIRK: So today is the 1st.
20	CHAIRMAN SALTZMAN: Yes. I'm taking that
21	to be doubtful.
22	MR. CICATELLI: Jim, we can do the 20th,
23	actually.
24	MR. MAHONEY: We'll get Heather

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5
1
             MS. MONTICUP: We'll figure out --
2
             CHAIRMAN SALTZMAN: That would give Jeff
3
    enough time.
             All right. We'll do the 20th.
4
             MR. SULLIVAN: That would be the traffic
5
    impact and architecture?
6
7
             CHAIRMAN SALTZMAN: Yes.
             Now, the week after, we could come back on
8
9
    a further chapter in our journey here and look at
10
    the water issues, maybe begin with that on the --
11
    does the 28th work for anybody?
12
             MR. WITTEN:
                           Is the 29th a possibility?
13
             CHAIRMAN SALTZMAN: We're already here.
    They'd have to wait for us to do our usual thing,
14
    you know?
15
16
             MR. WITTEN: That's fine. I can be here on
    the 28th.
17
             The only other comment, Mr. Chairman, is I
18
    think -- you're going to hear from Mr. Houston
19
20
    tonight. I'm sure the Applicant is going to want to
21
    respond --
22
             MR. CICATELLI:
                                   Not tonight.
                              No.
23
             MR. ENGLER: We just got it.
                              We got it at 4:51.
24
             MR. CICATELLI:
                                                  So we
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1 won't be responding --2 MR. WITTEN: Perhaps I'll finish what I was 3 going to say, which is, the Applicant is going to want to respond, not necessarily today, and that 4 would be at one of the continued hearings. So that 5 could be either the 20th or subsequently. 6 7 CHAIRMAN SALTZMAN: Right now we're at the We're meeting on the 29th with the -- does 8 the 28th work? 9 10 MR. SHULMAN: Sure. 11 CHAIRMAN SALTZMAN: That's a Wednesday. MR. MAHONEY: The topic would be a response 12 13 on the review letter received today and wetlands 14 issues or --CHAIRMAN SALTZMAN: And we would begin the 15 wetlands, the storm water -- the water in general. 16 We're not expecting to complete it that night on 17 that issue. 18 Just one other thing, there are a lot of 19 20 documents that are making their way in all kinds of directions from a lot of different people, and a lot 21 22 of them are coming by e-mail. I would just ask that 23 anything that would be an exhibit, you know, if we could have everything -- if we could have hard 24

copies sent.

It's great to get the electronic copy immediately, but sometimes stuff can't be downloaded for reasons that are nobody's fault. Sometimes even if you can download them, you can't get them printed. So I would just ask that we get hard copies sent to the Board office. Those would be the official copies.

So before we start, does anybody have anything else? (No response)

All right. Tonight we have the traffic engineer. I'll turn this over to you, Mr. Cicatelli.

MR. CICATELLI: Thank you, Mr. Chairman.

The two engineers have been speaking, obviously, and there was some additional information in terms of traffic counts that Heather from GPI has been working on. And as we mentioned, our concern was we would not have a full response to Jeff in order for him to review it and to the Board within the ten days prior to the hearing. So although there's been communication back and forth, the actual complete response was not given to Jeff, I think, until Tuesday.

1 So what we'd like to do, with your 2 permission, is Heather would like to just do a 3 summary of our response. Jeff may have some comments, but we understand he hasn't had a complete 4 opportunity to review it, and that's why we're 5 looking at the other hearing. 6 7 And then what we had hoped after that, we have Jim White here just to give a very brief 8 summary on civil. Again, we just received Mr. 9 10 Houston's comments at 4:51, so we're not prepared to respond, but just to give a very brief presentation. 11 12 And then at the next meeting --13 CHAIRMAN SALTZMAN: None of us are going to 14 throw stones at anyone for a late report. We've got 325 pages on traffic just recently. So --15 16 MR. CICATELLI: Understood. CHAIRMAN SALTZMAN: We understand that not 17 everybody is going to be in a position to respond to 18 everybody else, and that's absolutely fair. 19 20 MR. CICATELLI: The main reason I'm saying 21 it is we're going to give a very brief presentation. 22 We didn't want you to think we're holding anything 23 back. So with that I would like to introduce 24

Heather from GPI again.

MS. MONTICUP: Hello, everyone.

So at our last meeting we presented the Traffic Impact and Access Study. Jeffrey Dirk from Vanasse & Associates, VAI, got up and said some comments, and we received a peer review letter dated September 3rd, which provided comments on the Traffic Impact and Access Study, the site plans, as well as parking.

Some of the things that needed to be updated as part of his comments were to expand the study area, collect additional traffic volumes, look up more recent crash data, update trip distribution capacity and queue analysis, the conceptual improvement plan, as well as the site plans.

So as was mentioned, we did e-mail a couple letters on September 14th and September 22nd, just giving some preliminary information. However, the full, complete package was submitted via e-mail on September 29th and a hard copy was sent to both VAI and the Town of Stoneham for Wednesday morning delivery. So there is a bound complete set of that 300-plus pages.

Basically the study area increased a bit.

1 So now we're looking at 6 unsignalized locations. 2 Once we've done all the analysis -- this is just a 3 brief overview. I'll get into it a little bit more 4 in my presentation. We're looking at 6 unsignalized 5 intersections now. Vehicle queue increases as a 6 7 result of the project are 3 to 4 vehicles or less. We're now looking at 7 signalized locations. 8 Increases in overall delay, once we implement our 9 10 improvements, are expected to be less than 12 11 seconds, with levels of service of D or better at all the intersections except for Main Street at 12 13 Franklin Street and Central Street. That is expected to be a level of service E. However, it's 14 better than the no-build, and I'll get into that 15 16 later. We are still providing a left-turn lane at 17 the Franklin Street site driveway. In addition, 18 what we've added since the traffic study is a 19 20 pedestrian crossing across Franklin Street. 21 So the original study area, shown at the last meeting, is the 10 intersections shown in 22 23 blue/purple. We were requested to add Summer at Pleasant, Pleasant at Spring and Main at Pleasant. 24

So we have a flashing beacon at Pleasant and Summer, unsignalized intersection at Pleasant and Spring, and a signalized intersection at Main and Pleasant. So those were the added study area intersections to our scope.

In addition to getting traffic counts at those three locations, we also did spot counts at Main Street, Franklin Street and Central Street, as well as Pleasant Street at Summer Street. We did those the week of the 14th, turning movement counts during the weekday a.m. and weekday p.m. peak periods.

What we found from that was the spot counts done at the two existing study area intersections in 2015 validated the September 2013 counts that were conducted and used in the Traffic Impact and Access Study.

We had to look -- I'm going to go back one slide again. We had to look at more collisions, in particular at the intersection of Main Street,

Franklin Street and Central Street. In our traffic study, we had, I believe it was, 19 collisions over the three-year period.

So we went back, got the Stoneham Police

1 Department for the years 2012 to 2014, the most 2 It was found that only 9 collisions occurred over those three years, and of the 9 3 collisions, 5 of them were associated with on-street 4 parking. So the collisions have dramatically 5 decreased at that location in recent years. 6 7 We also provided in our response the collision data for the three new study area 8 locations. However -- we requested the information 9 10 from the Town of Stoneham Police Department. haven't received it yet, but we are expecting it on 11 Monday, so they've said. So we should have that 12 13 data and can supplement anything if it just doesn't seem to jibe with the Mass. DOT data that we found. 14

It should be noted that, based on the data that we do have, all the crash rates at those intersections are lower than the statewide and districtwide crash rates for intersections of that type.

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One of the big things that had to be changed, which was the cause for all the new analysis and what-have-you which made that document so big, was trip distribution. Originally, we had proposed 90 percent heading to and from the west,

1	with only 10 percent heading to and from the east.
2	In going back and forth a couple times with VAI, it
3	was changed to be 70 percent to and from the west,
4	with 30 percent to and from the east.
5	So what that did was it kind of relieved
6	some of the intersections in Stoneham and added a
7	little bit more traffic to our study area or
8	intersection to the east there at Perkins.
9	All that data is provided in the appendix,
10	and it was the trip distribution that's provided
11	and that the new analysis was based on had been
12	approved via e-mail from VAI.
13	CHAIRMAN SALTZMAN: So that would mean that
14	30 percent of the trips leaving in the morning would
15	take left turns.
16	MS. MONTICUP: Left turns. So that's a
17	change. We only had 10 percent before, and now
18	we've got 30. Okay?
19	So that was a big deal, because it meant
20	that we had to redo all our build analysis.
21	CHAIRMAN SALTZMAN: One quick question.
22	How many vehicles would you estimate in total would
23	be leaving in the morning?
24	MS. MONTICUP: Exiting the site during the

1 a.m. peak hour is 109 vehicles. CHAIRMAN SALTZMAN: 2 109? 3 MS. MONTICUP: In one hour. 109 vehicle trips exiting the site during the weekday a.m. peak 4 5 hour. So this is the new trip distribution. 6 7 can see we sent a little bit more to the north, a little bit more to the east, and that's shown on 8 this slide. 9 10 Just to show what we had presented at the last meeting with this new trip distribution, the 11 percent increases in traffic are very similar. 12 13 Again, no -- except for the site driveway during the weekday a.m. peak hour, all traffic increases are 14 15 expected to be lower than 10 percent. But these 16 numbers did change ever so slightly, based on the new distribution, so I wanted to have that presented 17 18 tonight. Traffic increases in the range of 7 to 73 19 vehicles are expected as a result of the project 20 21 leading beyond the study area intersections. 22 north up Main Street, west out Marble, south down 23 Main, out Franklin and out Perkins. So that is about one additional vehicle every 50 seconds to 8 24

1/2 minutes, depending on what roadway that we're on.

So consistent with the methodology that was provided in the Traffic Impact and Access Study, we did new capacity analysis and queue analysis at all the study area locations, all 10 of them, under the build condition. Also, under the existing no-build and build, we had to redo the Main Street at Franklin Street and at Central Street with the Central Business District methodology because of the movements happening in that area with the on-street parking and what-have-you, and also at the new three study area intersections, Summer at Pleasant, Pleasant at Spring and Main at Pleasant.

So that was new analysis under existing no-build and build, and then all the rest of the analysis was under the build condition only. It was summarized in tables in the appendix, and the capacity and queue work sheets were provided in the appendix.

So even with the redistribution of the traffic, the impacts on the study area intersections do remain similar to that which was presented in the Traffic Impact and Access Study.

1 At the 6 unsignalized intersections, we're 2 expecting queue increases anywhere from 3 to 4 3 vehicles or less. At the signalized intersections, once we implement traffic signal timings, we were 4 expecting to have increases in delay of 12 seconds 5 6 or less. 7 Because we had to redo the analysis with the Central Business District at Main Street, 8 Franklin Street and Central Street, those levels of 9 10 service got worse for all three conditions. So under the no-build condition, without the project in 11 place, that intersection is expected to operate at 12 13 overall level of service F. With the signal timing improvements that we're proposing, it goes back to 14 level of service E, which matches the no-build 15 16 condition. CHAIRMAN SALTZMAN: That's Franklin and 17 Main? 18 19 MS. MONTICUP: Franklin, Main and Central, 20 yes. 21 CHAIRMAN SALTZMAN: So that's an F, 22 meaning --23 MS. MONTICUP: Failing. CHAIRMAN SALTZMAN: How far back would that 24

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17
1
    be going?
2
             MS. MONTICUP: I do have that...
3
             CHAIRMAN SALTZMAN: Would that be past
    Spencer Street in order to be an F?
4
             MS. MONTICUP: Well, it's delay. The level
5
    of service is based on delay, not necessarily the
6
7
    queue length. I mean, they're somewhat related, but
    the level of service is based on the delay.
8
9
             But I could give you the queue length --
10
             CHAIRMAN SALTZMAN: I don't know how long
11
    the light is. I'm sure the people that wait there
    in the morning could probably give us a pretty good
12
13
    estimate. But I'm just trying to figure out how
    far -- how long somebody would have to wait there
14
    for it to be an F.
15
             MS. MONTICUP: Oh, it's over 80 seconds,
16
    right, for a level of service F.
17
             CHAIRMAN SALTZMAN: 80 seconds?
18
             MS. MONTICUP: At a signalized
19
    intersection.
20
21
             CHAIRMAN SALTZMAN: What are we at today?
             MS. MONTICUP: (Reviewing documents)
22
23
             CHAIRMAN SALTZMAN: Is that 80 seconds
    counting the light?
24
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1
             MS. MONTICUP: Nope. Nope. We're mixing up.
2
    You're asking me what is the level of service at.
3
    That's what you asked first, right?
             CHAIRMAN SALTZMAN:
4
                                  Yes.
             MS. MONTICUP: So when I look at the --
5
6
    hold on.
              I just want to make sure I get the right
7
    information to you. (Reviewing document)
             Yes, I was correct. 80 seconds for a
8
9
    signalized intersection. If you're waiting more
10
    than 80 seconds, overall it's considered a level of
11
    service F, okay?
             And what you were asking me was what are
12
13
    they waiting today, correct?
14
             CHAIRMAN SALTZMAN: Yes.
             MS. MONTICUP: And so when I go to that
15
16
    table... So if we look at -- of course I don't have
    existing; I just have... (Reviewing documents)
17
             Franklin Street at Main Street and Central
18
    Street, in the a.m. peak hour, it's overall level of
19
20
    service D, existing. But those were 2013
21
    conditions. So it was 51.7 seconds during the a.m.
22
           It's better during --
    peak.
             CHAIRMAN SALTZMAN: So this would add
23
    better than 30 seconds to that?
2.4
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1	MS. MONTICUP: Well, we don't compare it to
2	existing. We compare it to no-build, because
3	there's traffic and stuff. So things that need to
4	be accounted for.
5	So without any improvements in place,
6	you're looking at, like, a 15-second increase. But
7	we're proposing signal timing changes during the
8	a.m., which actually reduces the delay. So the
9	no-build is 80.4 seconds, and the build with
10	improvements is 79 seconds. So it's an improvement
11	over the no-build.
12	CHAIRMAN SALTZMAN: But those additional
13	seconds would come at the expense of the north-south
14	traffic on Main Street, right?
15	MS. MONTICUP: Correct.
16	MR. SULLIVAN: I'm a little confused. I'm
17	still looking at the traffic numbers at the site.
18	The a.m. peak hour shows 138 vehicles.
19	MS. MONTICUP: Uh-huh.
20	MR. SULLIVAN: Is that 138 vehicles passing
21	that site on Franklin Street during that time?
22	MS. MONTICUP: That's 138 vehicles during
23	the a.m. peak that enter and exit the site. So it's
24	the total number of traffic that's going to be added

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20
1
    to that intersection during the weekday a.m. peak
2
    hour.
3
             MR. SULLIVAN: Okay. So that's all added
    traffic to --
4
5
             MS. MONTICUP: Yes. It's our site
6
    driveway --
7
             MR. SULLIVAN: -- on your site.
                            Yes. It's coming out of our
8
             MS. MONTICUP:
9
    site driveway --
10
             MR. SULLIVAN: You said you had 109
    vehicles --
11
             MS. MONTICUP: -- and entering --
12
13
             MR. SULLIVAN: -- would be leaving.
14
    you're --
             MS. MONTICUP: So 29 vehicles are coming --
15
16
             MR. SULLIVAN: -- expecting 30 vehicles
    during that peak hour to enter your site. That's
17
    where the other --
18
19
             MS. MONTICUP: Yes. We're expecting 29 to
20
    enter and 109 to exit, correct.
21
             CHAIRMAN SALTZMAN: And that's during the
22
    entire peak hour?
             MS. MONTICUP: That's during the peak hour
23
    of the a.m. One hour.
2.4
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Doris O. Wong Associates, Inc.

	21
1	CHAIRMAN SALTZMAN: Okay. That's within one
2	hour of that, 109 vehicles would exit.
3	MS. MONTICUP: Yes.
4	CHAIRMAN SALTZMAN: So which hour is that,
5	if you don't mind my asking?
6	MS. MONTICUP: Oh, shoot. I had all this
7	in my other notes.
8	It's obviously between 7:00 and 9:00. I
9	have that in my old notes from
10	CHAIRMAN SALTZMAN: But the point is that
11	between 7:00 and 8:00 would be one hour, and you're
12	estimating 109 during that hour?
13	MS. MONTICUP: It coincides with the peak
14	of the school. I believe it's 7:30 to 8:30, I
15	think, is the peak hour along the corridor. And
16	that's what made it so bad, as I explained in my
17	last presentation, because the start of school
18	coincides with the peak hour of adjacent street
19	traffic.
20	CHAIRMAN SALTZMAN: So you've got 70
21	percent of them take rights to leave.
22	MS. MONTICUP: 70 percent will take right.
23	That's the distribution that was agreed.
24	CHAIRMAN SALTZMAN: But now we haven't

1 talked about the afternoon. Those 70 that are 2 taking rights --3 MS. MONTICUP: Will now make lefts. CHAIRMAN SALTZMAN: -- will take lefts in 4 the afternoon. 5 MS. MONTICUP: Correct. Yes. Which is why 6 7 we're proposing a left-turn lane, to make sure that they get out of the through traffic. 8 So that's the level of service that we 9 10 talked about that has been changed. 11 So if we get to the recommended improvements as a part of the project, a lot of it 12 13 is the same. Again, as I said, even though we redistributed the trips, the intersections that need 14 help with their signal timings are still the same 15 16 ones. So we're still proposing traffic signal 17 timing modifications at the high school, at Franklin 18 and Summer Street, as well as Franklin Street at 19 Main Street and Central Street. 20 21 The reason that we're not proposing more 22 improvements at Franklin Street, Main Street and 23 Central Street is because, since the collisions have decreased over recent years and the majority of them 24

1	being on-site parking collisions, and in addition to
2	our site-generated traffic being reduced through
3	this intersection, we're still proposing the same
4	improvements as we were proposing in the traffic
5	study.
6	Again, we're still proposing to strike the
7	left-turn lane at the site driveway along Franklin
8	Street, and the new addition is the pedestrian
9	crossing across Franklin Street.
10	So this would be a crossing I've got a
11	picture of it between our site driveway and
12	Rustic Road. It would have what's called a
13	rectangular rapid flashing beacon. So it would have
14	lights. It would be signed properly, proper
15	pavement markings.
16	And it was chosen to go in this location so
17	that it could accommodate the Colonial Park
18	Elementary School, which was brought up at the last
19	meeting.
20	CHAIRMAN SALTZMAN: Would there be a red
21	light that would stop the traffic?
22	MS. MONTICUP: It would not be a red light.
23	It's just a flashing beacon in each direction to
24	notify drivers of the pedestrian.

1 So let me show you --2 CHAIRMAN SALTZMAN: Just one small matter These are going to be white, and it's the 3 on that. morning, and you've got the sun coming up behind you 4 on Franklin Street. The sun's going to shine on 5 that, right? 6 7 MS. MONTICUP: Yes, but they've got louvres and heads over, just like a regular traffic signal 8 It's still got a tunnel over it so you can 9 does. see the light. 10 So, again, this was the same slide as last 11 Just, again, signal timing improvements at 12 Franklin Place, signal timing improvements at Summer 13 Street. Franklin Street, Main Street, Central 14 15 Street, signal timing improvements. 16 The site driveway I'll show you. We have modified -- we're still proposing the left-turn 17 lane. We've modified it a little bit, based on 18 19 comments from VAI. 20 So this is the full plan now. It looks the 21 same probably to most people, but we have extended 22 the limits of the plan quite a bit further up and 23 down Franklin Street. This smoothed out the curve a little bit, so that it wasn't so abrupt. 24

1 Instead of proposing a 10 1/2 foot 2 left-turn lane, we've made that 10 feet, which is 3 very common. So we have 11-foot travel lanes, 10-foot left-turn lane. 4 What we're doing is we're going to maintain 5 the 3-foot shoulder on the south side of Franklin 6 7 Street, and when we widen, we're going to take it from the shoulder on the north side, which currently 8 allows parking today. So we're adding a "No 9 10 Parking" sign. When we were looking at the corridor, it's 11 pretty consistent that there's a 3 to 3 1/2 foot 12 13 shoulder along the whole southern side of Franklin Street. But then on the northern side, there is 14 either on-street parking or, at other intersections 15 where there are turn lanes, such as Summer Street 16 and the high school, they all take from the shoulder 17 on the north. So those shoulders are anywhere from 18 1 foot to 2 1/2 feet when they add turn lanes. 19 20 CHAIRMAN SALTZMAN: I've got a question. 21 Is the Petitioner proposing to do that, or is the Petitioner asking for the Town to do that? 22 MS. MONTICUP: The petitioner is proposing 23 to put that left-turn lane in. 2.4

26 MR. WITTEN: Is the -- might I, Mr. 1 2 Chairman? 3 CHAIRMAN SALTZMAN: Sure. MR. WITTEN: The "No Parking" signs, is 4 that within the Town right-of-way? 5 MS. MONTICUP: It would be. 6 7 MR. WITTEN: And is the curb reduction or the curb alteration within the Town right-of-way? 8 9 MS. MONTICUP: Yes. So it would need approval from the Town. 10 MR. WITTEN: And the left-turn lane clearly 11 12 is the Town right-of-way? 13 MS. MONTICUP: Yes. MR. WITTEN: And the crosswalk is within 14 the Town right-of-way? 15 16 MS. MONTICUP: Correct. MR. WITTEN: And the signalization of the 17 intersections is under the Town's control? 18 MS. MONTICUP: At the other study area 19 intersections that are currently signalized? 20 21 MR. WITTEN: Yes. 22 MS. MONTICUP: All of them are under Town 23 control, except for one of them, the Main at Marble. And Summer is -- one leg is controlled by DOT. 24 But

1 we're not proposing any improvements there. 2 So all improvements that we are proposing 3 at this the time do not require State approval. It's all local. 4 CHAIRMAN SALTZMAN: If I might, why did you 5 decide not to consider the pedestrian lane light, as 6 7 opposed to the flashing white lights? MS. MONTICUP: Well, we've got existing 8 9 signalized pedestrian crossings just to the east at 10 the high school -- I'm sorry, west. I said that wrong. West at the high school. There is another 11 signalized crossing down just west of Perkins. 12 13 this is --14 CHAIRMAN SALTZMAN: So you've got them in 15 the habit already; they're stopping for pedestrians. 16 Why stop here? MS. MONTICUP: Well, because at the last 17 meeting, there was some concern about pedestrians 18 crossing to get to Colonial middle school --19 20 Elementary School. Excuse me. Colonial Park 21 Elementary School. 22 CHAIRMAN SALTZMAN: Right. What I'm saying 23 is, why wouldn't you put a pedestrian light in right there so that they can head down Rustic Road? 24

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1
             MS. MONTICUP: Well, you can't put
2
    pedestrian lights at an intersection. They can't be
3
    at the intersection, because they don't --
             CHAIRMAN SALTZMAN: All right. So a few
 4
    feet either side. I mean, you've got one near
5
    Perkins Street.
6
7
             MS. MONTICUP: Correct. Not at the
    intersection, though. It's just west of it.
8
9
             CHAIRMAN SALTZMAN: Fair enough.
    wouldn't insist on one at the intersection, but --
10
11
             MS. MONTICUP: Well, we want to make sure
    that we have adequate sight distances too. So it's
12
13
    been placed in such a way. When we put the speeds
    out there, they were a little lower this last time
14
    when we did counts, but this -- this time that we
15
16
    did counts, speeds were a little lower in some
    directions. But the max, 85th percentile, speed
17
    that we got out there was 40 miles an hour.
18
             We wanted to make sure that we had adequate
19
    stopping sight distance for the pedestrian signal.
20
    So it's placed in between the two curbs to
21
22
    accommodate that. And I can show you as I go
23
    through these slides a little bit.
             So anyway, this has been changed slightly.
24
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I mean, it's still doing the same purpose. It still accommodates a left and right turn out of the site driveway. We've pushed the crosswalk in a little bit, just to move those pedestrians ever so slightly away from the curve of the roadway.

Like I said, we've kind of lengthened the pavement markings so that they're not so abrupt, to address VAI's comment about truck tracking through the curve and what-have-you. So it's been changed slightly.

We also are -- so here's a little close-up of it, just in case you wanted to see the changes. Like I said last time, in order to accommodate the shoulders and keep it as much consistent with other turn lanes in the rest of the corridor, we tried to maintain the shoulders as much as possible.

So we did that by making it a 10-foot left-turn lane, which still works. In the response to comments, we show emergency vehicles turning in and out of the driveway from the turn lane. So this is adequate.

So this is our pedestrian crossing that we're proposing. And it's going to be placed -- and I just have these numbers -- it's 560 feet east of

1 the site driveway, which puts it about 375 feet west 2 of Rustic Road or 530 feet west of Gerald Road. And, again, we placed it there because of the curve 3 in the road, horizontal, a bit of a vertical, so we 4 wanted to make sure that it was placed appropriately 5 so that everyone could see. 6 7 What is going to happen when we put this in, because there's on-street parking on the north 8 side, it is going to eliminate probably about three 9 10 parking spaces, but we want to make sure the pedestrians are safe and have that bump out to get 11 into the crosswalk. 12 13 So that's our new improvement. And if I show this next slide -- here it is. I pushed it too 14 15 fast. Sorry. Hold on one second. These files are bigger, so they just take a little bit longer. 16 So here's the site driveway around here. 17 That's Gerald Road right there. Rustic is right in 18 So the crossing would be roughly right 19 there. 20 around there, right where the property hits Franklin 21 Street again. 22 So that's our new --CHAIRMAN SALTZMAN: How much of a reduction 23 is there on the sidewalk along there? 24

	31
1	MS. MONTICUP: Reduction on the sidewalk?
2	CHAIRMAN SALTZMAN: Is there any reduction?
3	MS. MONTICUP: No.
4	CHAIRMAN SALTZMAN: Just on the shoulder?
5	MS. MONTICUP: We only take from the
6	shoulder. We're not touching the sidewalks.
7	So the last bit of information that was
8	included with the response to comments was a
9	write-up about pedestrian/bicycle facilities. We
10	committed to some transportation demand management
11	items. The site plans were updated and were
12	included in the package, based on all VAI's
13	comments, and also we included the parking data that
14	was requested.
15	So that's really a summary of what's
16	included in that document that the Town received
17	Tuesday and Wednesday.
18	MR. WITTEN: So could I ask, Heather, we
19	have one copy of the plan that was included in the
20	report. Would you send the Board some more copies?
21	MS. MONTICUP: Yes. So you want the whole
22	document, a hard copy? We can get those, if that's
23	what you want. Or do you just want the plans? You
24	see the document. It's enormous. So I'll give you

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1
    whatever you want.
2
             CHAIRMAN SALTZMAN: I think -- we've got
3
    the exhibit that's been sent. I think everybody on
    the Board should have a copy of it.
4
5
             MS. MONTICUP: So you want everything.
    Okay.
6
7
             MR. WITTEN: And then if I could, Mr.
8
    Chairman --
9
             MS. MONTICUP: Do you need one too?
10
             MR. WITTEN: Yes. Heather, my only
11
    question is a follow-up on what I asked you before.
    So it sounds like the proposals in response to Mr.
12
13
    Dirk's report and some which you had offered, I
    think, at the beginning and you and Mr. Dirk worked
14
15
    out, are the signal synchronization; the left-turn
    lane, which you've amended a little bit tonight to
16
    talk about the shoulder issue and the no parking;
17
    the pedestrian crossing and -- those are the three
18
    substantive improvements?
19
             MS. MONTICUP: Signal timing improvements
20
    at three locations, the left-turn lane and the
21
22
    pedestrian crossing, correct.
23
             MR. WITTEN: Do you have an opinion as to
    what you would recommend to the Board, if you were
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1
    representing the Board, as to this project without
2
    those three recommendations?
                                   In other words, is
3
    this project a viable project --
             MR. CICATELLI: Well, I don't think she --
4
             MR. WITTEN: Well, she can answer it if
5
6
    she'd asked it, Attorney Cicatelli, not upon your
7
    coaching.
             MR. CICATELLI: I don't think she should
8
9
    opine what the Board would decide or --
10
             MR. WITTEN: So, Heather, do you have an
11
    opinion as to whether these are required
    improvements for safety or other transportation/
12
13
    engineering explanations for this proposed project?
             This is a public hearing. This is a public
14
15
    hearing. I'm representing the Board, and I'm
16
    asking --
             MS. MONTICUP: Those are my recommendations
17
    as a traffic engineer --
18
             MR. WITTEN: Yes. And without those--
19
             MS. MONTICUP: -- to include those --
20
             MR. WITTEN: And without those
21
22
    recommendations, would you have a different --
23
             MS. MONTICUP: That would be the Board's
    decision to make. That's what I've recommended.
2.4
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	34
1	MR. WITTEN: You believe these
2	recommendations are required
3	MS. MONTICUP: I believe those
4	recommendations are should be implemented, yes.
5	But if the Town has a reason as to not implement
6	them, that would be up to them.
7	MR. WITTEN: Your opinion is these are
8	three required recommendations
9	MS. MONTICUP: These are my recommended
10	improvements.
11	MR. WITTEN: Thank you.
12	MR. SULLIVAN: I just have a question. Has
13	there been any thought given to, like, the MBTA
14	having a bus stop at the location?
15	MS. MONTICUP: We said we would look into,
16	yes, a bus public transportation, as well as Zip
17	Cars. There was something else we said we would
18	investigate
19	MR. SULLIVAN: Zip Car is just another car,
20	You know. Public transportation
21	MS. MONTICUP: But people who don't have
22	cars probably appreciate them.
23	MR. SULLIVAN: I mean, I believe the MBTA
24	runs right up Franklin Street

1	MS. MONTICUP: As shown on I don't have
2	it on this one, but there is a bus route about
3	right at Franklin and Main and Central. So it's
4	about, what was that, 1.8 miles, I believe? And
5	then it's .8 miles to the MBTA station. There is no
6	bus stop directly on Franklin Street.
7	MR. SULLIVAN: I know there's not a bus
8	stop there, but I thought I've seen buses driving up
9	there before.
10	MS. MONTICUP: We did commit to contacting
11	the MBTA.
12	MR. SULLIVAN: So that's in the works.
13	We'll have some sort of answer at our final meeting,
14	I would hope?
15	MR. MAHONEY: You don't get too far with
16	the MBTA until you have, you know, something real
17	that's going forward.
18	MR. SULLIVAN: I understand that.
19	MR. MAHONEY: We can
20	CHAIRMAN SALTZMAN: Wasn't there additional
21	thought being given to having vehicles, like, on a
22	regular basis leaving the site for train stations,
23	toward whether it be Oak Grove or the Highlands, to
24	facilitate public transportation? Did I imagine

1 hearing that or was that said? 2 MR. MAHONEY: Some sort of shuttle from our 3 site? 4 CHAIRMAN SALTZMAN: Yes. MR. MAHONEY: Typically on a location like 5 this, we would do that on a demand basis from the 6 7 residents. So we would certainly try to build up -if it was something that the residents wanted, then we would certainly look into providing it. It's 9 hard to predict what our residents are going to 10 11 want. MS. MONTICUP: What we did commit to was 12 13 providing information about bus schedules, things like that. So there will be, like, a contact person 14 for that stuff. So if that came up, they could 15 address it through that. 16 CHAIRMAN SALTZMAN: The nearest is the 17 square by bus, and it's -- actually it's down by 18 the -- it's down at the Baptist church now. It's a 19 little further than it was. And the other would be 20 21 the commuter rail from the Highlands, which is about 22 a mile. You're almost a mile in each direction. MS. MONTICUP: Exactly. The site plans 23 were updated with, I believe, a bus stop -- the 24

	37
1	school bus area, to pull it onto the site.
2	CHAIRMAN SALTZMAN: Questions? (No
3	response)
4	Just back to the pedestrian light, are you
5	saying you know, I'm just trying to understand
6	what your position was on that. Are you saying that
7	it's difficult to site a pedestrian light on that
8	spot?
9	MS. MONTICUP: Well, no. We do have
10	enough, but I'm saying it's not just adjacent to
11	Rustic Road because of the curves in the road.
12	That's all. Because I know you had referred to
13	the one down by Perkins, which is very close to the
14	intersection. This one will be a little bit
15	further, as I had mentioned those distances, just
16	because of the horizontal and vertical curves in the
17	roadway.
18	CHAIRMAN SALTZMAN: But the one at Perkins,
19	which is there for everybody, that has a light.
20	MS. MONTICUP: Yes, it does.
21	CHAIRMAN SALTZMAN: Why wouldn't you have a
22	light certainly for elementary school kids that are
23	crossing this particular street and going to an
24	elementary school?

1	MS. MONTICUP: Well, it is lighted with a
2	beacon. I mean, it is approved by this is an
3	approved method of crossing pedestrians.
4	CHAIRMAN SALTZMAN: Right. Would it be the
5	desirable improvement for a street that's getting
6	this kind of volume, such where we're looking at
7	putting in an additional lane for left turns?
8	MS. MONTICUP: That's what we're proposing
9	at this time.
10	CHAIRMAN SALTZMAN: All right. Duly noted.
11	Are there any other mitigations that are
12	being proposed?
13	MS. MONTICUP: Not at this time.
14	CHAIRMAN SALTZMAN: I guess at this time
15	I don't know if Mr. Dirk would like to respond,
16	recognizing that we will be hearing further from you
17	at a future meeting? If you could.
18	MR. WITTEN: Jeff, why don't you take this
19	seat.
20	MR. DIRK: Thank you, Mr. Chairman. For
21	members of the audience, my a Jeffrey Dirk,
22	principal with Vanasse & Associates. We're the
23	Town's consultant on the project.
24	I did have a chance to just quickly look

through the materials, and certainly I haven't had a chance to do a thorough review of everything, but I think we're getting to a point where at least the mechanical aspects of the traffic study that I really need to advise you as to the improvements, we're in a range where now I think all of those elements are in place, the most important of which mentioned was the trip distribution. We've got to make sure the traffic is assigned correctly so we can assess where the impacts are.

I think in working with the Applicant's engineer, we've at least gotten to a point now where I'm comfortable with the way the traffic is arriving and departing from the site, and that's really what's going to dictate a lot of the improvements they're going through. So I think we're in the mode now where we're going to be focussing in on the mitigation for the project.

Some of the areas, Mr. Chairman, that you were commenting on relative to the levels of service and things, you know -- we talked about those delays, and I think one of the things that I will be looking at as well, as you mentioned with the signal timing, there's usually a balancing that happens.

There's only so much green time on that light to use, and it's got -- if you're going to improve the operations, you're moving that time around on the signal.

And that's not always a bad thing, but what it does is, we just have to be careful the queuing that you had mentioned, those backups, that as we move that time around, we're not creating a condition that's worse than what's out there today. You can reduce the delays, but sometimes that's at the detriment of queuing on some of the approaches.

Certainly, as I said, it's a valid way to address the impacts of the projects. We've got to make sure there's not unintended consequences of blocking of driveways and roadways happening as well. So we'll be looking at that.

CHAIRMAN SALTZMAN: Just one other thing on that point is that the change that's proposed for Franklin and Main, our busiest roadway in the Town is Main Street. So anything that you add to Franklin Street, you are subtracting from the busiest roadway in the Town.

MR. DIRK: Right.

CHAIRMAN SALTZMAN: And when you're talking

about unintended consequences, I can't think of a greater one.

And I guess before we entertain a proposal where -- we're looking at this particular problem in isolation, but if we -- you know, we could cure this whole issue with Franklin Street; just let it stay green all the time. But we would have problems on Main Street if we did that.

And what I'm saying is, you know, if we are going to entertain that, we need to familiarize ourselves with what the effects would be on Main Street.

MR. DIRK: Correct. That's right. And that's the unintended consequences. Sometimes it's better to leave it alone. You have impacts relating to the project, but it's better, in terms of what the net impact on the intersection and those unintended consequences, to really do nothing and focus your effort someplace else.

That's something that we'll be looking at, because queuing is an issue at that intersection, and blockages are an issue at that intersection.

And so we just want to make sure, as you said, that we're not creating something that's worse there.

The other thing that you'll notice from the trip distribution changes is that we are looking at sending more of that traffic up Pleasant Street. So that does have some impacts on that corridor extending up to Main Street as well.

So we'll be looking at what those are, because we did notice, there's some extended queuing also that happens there, particularly in the morning, heading up in that area. So we'll be looking to see if there's need for improvements up at that location.

The last two things I wanted to comment on deal with the concept plan. I think it's come a long way from the last time that you had seen it in terms of the left-turn lane at the access into the property. And in particular, as we had mentioned, our concern was some of the off-tracking of trucks. I think they've addressed some of that with the revised plan that they have before you.

Some of the things had to be changed to make sure we had emergency vehicle access. That's why you see the driveway having those changes, because there were some issues previously with getting the fire trucks in and out of the site

there.

In looking at the pedestrian accommodation that they're providing for crossing, we're glad to see that they've at least got that in there. A couple of things, just following up on your questioning of the Applicant's engineer.

We talked before it about the need -installing a full traffic signal, so the red,
yellow, green signalized intersection, we need to
meet those signal warrants. We had said today it
doesn't look like you're going to meet those
warrants.

So what the Applicant has done, because we're not meeting those signal warrants, wherever this pedestrian crossing would take place, it can't be at an intersection. So it's going to have to be somewhere that's not physically at an intersection. So the distance where it is, it's got to be separated from an intersection.

So they've tried to achieve a location where you're not at an intersection but that you've got the good sight lines. So they're balancing those two things out.

What we had spoken about as a potential

measure at the last meeting was the pedestrian hybrid beacon. What they're proposing at this point is just basically -- it's a flashing beacon that essentially, when a pedestrian comes up, they would push a button, and then what happens is the sign that's on the side of the road, it starts flashing, or around the edge of the sign it would basically have a yellow kind of strobe effect to it.

But that's on the side of the roads there. So if there's not a pedestrian there and you're driving by, you just see the signs that say, "Pedestrian Crossing." So the standard sign with a crosswalk and a pedestrian in the crosswalk.

When a pedestrian is there, they push a button, and it causes the sign with lights on it to start flashing yellow so that a motorist would know that there's a pedestrian crossing, unlike when there's nobody there.

The pedestrian hybrid beacon that we're speaking about, it physically has the red light. So it stops the traffic at the crossing. So if a pedestrian is not there, it's dark, and you don't see anything other than the "Pedestrian Crossing" sign. But when a pedestrian pushes it, it starts

the lights flashing, and it goes from a flashing yellow to a solid red indication. So then you physically have to stop there.

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Those are permissible to be installed when you don't warrant a traffic signal. I think that was -- what we were talking about was physical stopping of traffic.

The other part of that, as was mentioned, in terms of the sun glare, the solar glare, with that type of an installation, the indications are actually over the roadway. So as opposed to being on the side of the roadway, you actually have them centered over the roadway. And there's two indications. One is on the roadway, and one can be off to the side. So it's definitely more enhanced than I think what they're looking at here.

It's an alternative, and I think it achieves the balance of what you were speaking about if we have children crossing there, it's better to have the traffic physically stopped. And that's the same type of thing you would get with a crossing guard.

CHAIRMAN SALTZMAN: You know, I think the point about having the light some distance from the

1 intersection is well taken. And I guess the 2 question I would have on it would be, you know, not 3 to -- it may be a little overkill, but would it be possible if, when the button is pushed, that you can 4 have a red and yellow signal, and then when that's 5 done, it goes back to flashing yellow? 6 7 Why not have the two lights, red and Everybody knows what that means. 8 yellow? 9 means you've got a kid in the road. And it's not 10 taking up any more time than just having the pedestrian light, sort of a light, sort of not a 11 light, but everybody knows what the red and yellow 12 13 means. MR. DIRK: That combination of signal 14 displays is actually -- it's no longer allowed. 15 16 It's actually been removed. And the reason for it is that it gives a conflicting message to motorists 17 in that, when you see those -- I know that was the 18 old style, and you used to see it all -- the 19 Department of Conservation and Recreation used to 20 21 use it everywhere, the old Metropolitan District 22 Commission. You'd see that a lot when they had the 23 crossings in place. As I mentioned, that's recently -- it's 24

1 been removed so that it's no longer permitted. 2 can't do that. So the option is basically this pedestrian hybrid beacon, which displays yellow to 3 tell you it's going to change and then red to tell 4 5 you to stop. The conflict was, yellow is usually telling 6 7 you something is about to change, and then you've got a red that says stop. So for that reason it's 8 been -- it's removed and it's no longer allowed. 9 10 So that's why that hybrid beacon has come 11 into play as well. 12 CHAIRMAN SALTZMAN: Dinosaurs. 13 MR. DIRK: The last thing I wanted to just comment on, and I'll be discussing with the 14 Applicant as well, they did provide parking 15 16 information for similar sites, because there was a concern about the parking ratio. That's one of the 17 things that's below the Town zoning requirements. 18 They're I think around 1.6? 19 20 MR. MAHONEY: 1.5. 21 MR. DIRK: So we've asked them to provide 22 some information on similar communities -- or 23 apartment communities in similar settings with similar access to public transportation. 24

So they have done that, but what they did provide is basically just an inventory of the amount of parking that's provided. What we're actually looking for is the demand for parking.

So there needs to be a correlation. Just because you provide a certain number of spaces of parking, the ratio of 1.6 in a community, we want to know if that's sufficient. So really the question is, the parking that's provided at these communities, how does that relate to the demand?

And so it's the demand that we actually need to see, versus just the number of parking spaces that are provided. So that's something we just need some clarification on to make sure that these other communities do have sufficient parking.

So that's all I have now. I will be happy to answer any questions you have. As I said, we still need to do a review of the 300-some-odd pages here.

But I think, you know, the good thing is, all of the technical pieces are here, and that's what I need to be able to -- when the technical pieces are in place, I can advise you as to impacts and mitigation to address what those impacts are.

1 CHAIRMAN SALTZMAN: Any comments on the 2 additional lane? What's proposed here now, there's 3 been a change proposed in how that would operate. MR. DIRK: In terms of the left-turn lane? 4 CHAIRMAN SALTZMAN: 5 Yes. Just what are your initial thoughts, at least as you look at what 6 7 they've done there? MR. DIRK: Well, I think -- you know, 8 again, the way they're achieving the left-turn lane 9 10 is reducing the shoulder widths that are out there. I think they've been very up front in saying that's 11 the way they're achieving that. 12 13 And essentially what they're doing is, on the project side of Franklin Street, they're 14 narrowing the shoulder down from what's now 7 feet 15 and sometimes used as a parking lane, that's being 16 reduced down to somewhere around 2 feet or so. 17 So you are losing the ability to park along 18 Franklin Street. If that's something that's used on 19 20 a regular basis out there, that's going to be taken 21 away, essentially. 22 CHAIRMAN SALTZMAN: Parking is probably 23 less of an issue, it would seem, than a bike lane, for example. And I recognize they can't create 24

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    space, you know.
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             MR. DIRK:
                         Right.
3
             CHAIRMAN SALTZMAN: So if they're going to
    get a lane, they've got to take it from the space
4
    that's there.
5
             MR. DIRK: So that's the other piece that
6
7
    you're missing, is by reducing the shoulder width,
    you are taking away the bicycle accommodation that's
8
    out there, because what is remaining is not
9
10
    sufficient for bicycle traffic in terms of the
11
    travel lane and the shoulder that's out there.
             So you are losing that ability that you
12
13
    presently have. And that's one of the reasons we
    had asked them to inventory pedestrian/bicycle
14
    accommodations along the roadway, so that we could
15
16
    compare before and after.
                                  I thought that
             CHAIRMAN SALTZMAN:
17
    everybody had to do bike paths, bike lanes at least.
18
    And it would just seem to me that if somebody is
19
    traveling on the road and suddenly they come to this
20
21
    particular spot and they get squeezed out, that -- I
22
    mean we've created a design that's certainly not
23
    conducive to them.
                                 And that is a concern.
24
             MR. DIRK:
                        Right.
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1 CHAIRMAN SALTZMAN: We're designing them 2 off the road is what we're doing. And I recognize, you know, this is real problem, and you can't get a 3 left-hand lane that gets everybody down Franklin 4 Street without taking some space. Then you look at 5 what have we lost in creating this solution. 6 7 MR. DIRK: Right. And that's what it is. And you are correct in that if you have bicycle 8 accommodations along a portion of the corridor, 9 10 you're losing it in this section. So if a bicyclist was riding in the shoulder area, all of a sudden 11 they'd be on the edge of the travel lane or within 12 13 the travel lane as they go through the area where 14 the improvements are taking place. So, I mean, that is something -- that's 15 what you're giving up. To do this, you're narrowing 16 up the physical space that's available for motorists 17 and bicyclists who use that section of the roadway 18 there. And that's how they're achieving the turn 19 lane that's in there. 20 21 CHAIRMAN SALTZMAN: What's your thought as far as that as a solution, just as a traffic 22 23 engineer? Is that creating an unsafe situation? I mean, it certainly --24 MR. DIRK:

CHAIRMAN SALTZMAN: And again, recognizing
-- in all fairness, I mean, I understand what the
problem is, and I understand that they're -- they're
not able to create more space.

MR. DIRK: Well, you can by widening the road. What they're trying to do is achieve the turn lane without widening the road and rebuilding the sidewalks.

And so we'll be able to look at the plans that they've provided to see how much physical public right-of-a-way is available; so the right-of-way that the Town owns, the roadway fits within it, there's a sidewalk, and then there's a little bit more room beyond that.

So the question is, can they achieve the turn lane and continue to accommodate bicycles and pedestrians in that corridor by widening the road so that nothing from the standpoint of the public's use of the roadway has been removed, it's still maintained: They provide a left-turn lane they need, the sidewalks still are retained, there's still bicycle accommodations. Is there enough public right-of-way to achieve that, which may require some widening of the road.

1 CHAIRMAN SALTZMAN: As you look at this in 2 the weeks to come, could you address that question, 3 just --4 MR. DIRK: Yes. CHAIRMAN SALTZMAN: -- as far as what would 5 it take to have -- we want everything. So we want 6 7 the left-hand turn and sufficient pedestrian and bicycle access. It would just seem to me that 8 whatever is done there really shouldn't come at the 9 expense of cyclists on both sides of the roadway. 10 11 MR. DIRK: I don't think, from the standpoint -- from the standpoint of the Town, 12 13 you shouldn't lose accommodations that are presently 14 afforded in your right-of-way. If your right-of-way affords certain accommodations for pedestrians, 15 bicycles and motor vehicles, you shouldn't be giving 16 that up to create the improvements. And so I will 17 be looking at that. 18 CHAIRMAN SALTZMAN: I look at it as I don't 19 20 see how we can give it up. I'm not sure that it's 21 in the cards for us to give it up. I think we have 22 to insist that it be there. 23 MR. DIRK: I don't disagree with you. CHAIRMAN SALTZMAN: 24 Questions? (No

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1	response)
2	I would just ask you don't have to
3	respond. I mean, I don't think it would be the
4	Applicant's posture that the improvements that are
5	made at the site should really come at the expense
6	of either pedestrians or cyclists. I don't see
7	anyone shaking their heads and saying no.
8	MR. MAHONEY: We'll look into bicycle
9	accommodations.
10	CHAIRMAN SALTZMAN: All right.
11	As will you.
12	MR. DIRK: Thank you.
13	CHAIRMAN SALTZMAN: Next up?
14	MR. CICATELLI: We're going to have Jim
15	White give a brief presentation on civil, Mr.
16	Chairman.
17	CHAIRMAN SALTZMAN: Thank you, Mr. Dirk.
18	MR. WHITE: Good evening. My name is Jim
19	White, and I'm a civil engineer with the engineering
20	firm of H.W. Moore Associates in Boston.
21	I would like to make a very brief
22	presentation of the proposed site and the civil
23	engineering aspects of it.
24	As you look at the plan on the screen

1 presently, that's the existing condition plan, and 2 you'll notice several items on it. Looking north --3 this is to your left, west is down, east is up -the current operation of the compost and topsoil 4 farm is in this area, which is the upland area. The plan indicates the wetlands along the perimeter of 7 that upland area.

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There's a large wetland area to the north and to the west portion of the site. There's also a drainage ditch that runs -- sort of dissects the site and runs along the east side. This ditch was reportedly constructed in the early 1950s to help drain the farm fields.

There is a drain pump in this area that was supposedly built after Franklin Street was improved back in the '50s, and it helped relieve the water in the fields, and the farmer -- the owner of the property installed it back in that time to help drain off the fields.

There is a hill in this area (indicating). The lines on the plan are topographic lines, and the more lines, the higher up you get. So you can see it's about 34 feet high.

All of our development will be taking place

1 in the upland area. That's shown in the next plan. 2 This plan shows the layout of the proposed 3 development. The wetland area that's along the outside portion of it, all our work is outside of 4 the -- more than 25 feet from the wetland area. 5 The development consists of three apartment 6 7 buildings and five townhouse buildings, 438 parking spaces, for a parking ratio of 1.38. All the 8 parking spaces are 9 feet wide, 18 feet long. All 9 10 the access alleys are 24 feet wide. 11 One of the slight adjustments we made to the plan as the result of --12 13 CHAIRMAN SALTZMAN: Did you say that it's 1.38 --14 I'm sorry. 1.66 parking ratio. 15 MR. WHITE: 16 One of the improvements we made to the plan, based on Vanasse & Associates comments, is we 17 modified very slightly the entrance drive to provide 18 an island, a 6-foot wide minimum width island down 19 to the first intersection, and we also provide a 20 level landing area, not to exceed 2 percent for 50 21 22 feet for vehicles exiting the site. We also 23 raised -- added a crosswalk, created a raised crosswalk in this area by the clubhouse building. 24

1	This plan indicates the grading and
2	drainage plan. We show the proposed grading on the
3	site. One thing you'll notice, that hill is gone
4	that was here. What we're doing is we're going to
5	propose to knock down that hill. We have what we
6	call a balanced site; we balance how much cut we
7	have with how much fill we have, so we won't be
8	taking material off-site. We'll be knocking down
9	the hill and filling in the lower areas so it
10	balances out and flattens out the site.
11	This plan shows the storm drainage system.
12	The storm drainage system is designed not to
13	increase the rate of runoff from the project site
14	for the 2- and 10-year storm events. This was
15	accomplished by the construction of 5 underground
16	detention infiltration systems, along with a small
17	water quality basin in this corner.
18	CHAIRMAN SALTZMAN: Mr. White, what year
19	storm system would that be?
20	MR. WHITE: It would be for the 2 through
21	100.
22	CHAIRMAN SALTZMAN: What kind of a storm is
23	expected the beginning part of the week?
24	MR. WHITE: At the next meeting I'll tell

58 1 you what storm it was. 2 CHAIRMAN SALTZMAN: Just so we have an 3 idea. MR. WHITE: I don't know. We'll see when 4 it hits, and I can let you know. 5 MS. McBRIDE: Well, there's inches, right? 6 7 MR. WHITE: Pardon? MS. McBRIDE: There's inches of rain that 8 9 determine --10 MR. WHITE: A 100-year storm is a 7-inch 11 rainfall event, and a 2-year storm is a 3 -- I 12 believe it's 3.2 inches of rainfall. And those are 13 standard numbers that DEP has established to use, 14 and --CHAIRMAN SALTZMAN: So the storm we had 15 yesterday, what would that be? 16 MR. WHITE: I'm not sure how much --17 CHAIRMAN SALTZMAN: 2 1/2 inches? 18 MR. WHITE: If you're talking 2 1/2 inches, 19 it might have been a less than a 1-year storm, maybe 20 21 a 1-year storm. It wasn't a major storm. 22 And so the underground detention systems, 23 they're very similar to a septic system where they use crushed stone. We use an inverted, U-shaped 24

	59
1	plastic structure that holds water. The first
2	volume of 1 inch of rainfall actually infiltrates
3	into the ground. The remainder of it, there's an
4	outlet pipe, a small outlet pipe that lets water out
5	slowly.
6	So it's been designed not to increase we
7	have, I mentioned, five underground systems, and
8	they've all been designed as to not increase the
9	rate of flow from the site.
10	As part of the design of the system, we did
11	borings at each system, at least two borings going
12	down about 20 feet to determine the type of soil and
13	the groundwater elevation. So these have been
14	thoroughly investigated and will be able to work
15	fine.
16	CHAIRMAN SALTZMAN: And they're good for a
17	7-inch storm?
18	MR. WHITE: Yes, that's correct.
19	MR. SULLIVAN: I have a question, Mr.
20	Chairman. These water retention, I assume they're
21	tanks?
22	MR. WHITE: They are upside down U-shaped
23	plastic structures. They're designed
24	MR. SULLIVAN: Do they hold water?

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1	MR. WHITE: Yes. They're open on the
2	bottom. They have crushed stone underneath them.
3	They're surrounded by crushed stone and crushed
4	stone above them.
5	MR. ROTONDI: Like a French drain.
6	MR. WHITE: Yes.
7	MR. SULLIVAN: So they don't hold water.
8	MR. WHITE: They hold water, but then the
9	water leaches into the ground. During very large
10	storm events, some of the water will overflow, and
11	it allows a volume it allows it to build up in
12	the chamber and outflow
13	MR. SULLIVAN: How many gallons is the
14	capacity?
15	MR. WHITE: I don't have that number on the
16	top of my head. I can certainly get you that
17	number.
18	MR. SULLIVAN: Okay. Can you answer that
19	question for me next time?
20	MR. WHITE: Sure. That's no problem.
21	MR. SULLIVAN: I'm just curious how many
22	gallons.
23	MR. WHITE: They're quite large systems.
24	MR. SULLIVAN: And also you said you did

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1
    borings there.
2
             MR. WHITE: Yes.
3
             MR. SULLIVAN: Was there any peat found
    there?
4
             MR. WHITE: Not in the vicinity of the
5
    infiltration systems. I believe there was peat out
6
7
    in -- somewhere in this area (indicating), I
    believe, but there was none in the infiltration
8
    systems area. All the infiltration systems
9
10
    indicated a glacial till or glacial outwash
    material. It was all solid material.
11
             MR. SULLIVAN: Is that the only location
12
13
    there was peat, in that front area?
14
             MR. WHITE: There was none in any of the --
          There was none in any of the infiltration
15
    ves.
    system areas or throughout this portion of the site
16
    (indicating). I believe, and I can go back and
17
    check through the borings, there was just one
18
    outside the area, basically outside where we're
19
20
    working that found peat. I'll check on that.
21
             MR. SULLIVAN: Okay.
                                    I'll look for the
22
    answer the next time too on locations of peat there.
23
             MR. WHITE: Sure.
24
             MR. SULLIVAN:
                            Thank you.
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1 MR. WHITE: This plan indicates the site 2 utilities that I just want to briefly go over. 3 addition to the storm water, we have a water line connection on Franklin Street. The water line comes 4 in, and then it will loop around the buildings, form 5 several loops within the site. 6 7 We'll have hydrants. We'll review the hydrant locations with the Fire Chief. We've put in 8 so far a few fire hydrants, but we'll make sure the 9 10 Fire Chief is happy with those locations. 11 Our sewer system will be a gravity sewer Since this is all a gravity sewer system, 12 there's also a pump station in this location, and 13 then a force main will carry it over to the sewer 14 line in Franklin Street. And the Franklin Street 15 16 flows to the east in that direction. 17 MR. SULLIVAN: A question? CHAIRMAN SALTZMAN: All right. 18 MR. SULLIVAN: On this sewer system, it's 19 20 going to be pumped? 21 MR. WHITE: Yes. 22 MR. SULLIVAN: So I would assume you're 23 going to have some sort of standby power? That's correct. We'll have an 24 MR. WHITE:

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1	emergency generator.
2	MR. SULLIVAN: And how big of an emergency
3	generator will that be? Will you require a tank for
4	fuel or natural gas or you don't know?
5	MR. WHITE: We'd like to have natural gas.
6	It used to be you had to have diesel. They've been
7	changing or they're about to change
8	MR. SULLIVAN: They allow you natural gas?
9	MR. WHITE: They allow natural gas. Now,
10	that's certainly preferable to diesel. And natural
11	gas, there won't be any tank. It will be much
12	safer.
13	MR. SULLIVAN: But we don't know if there's
14	enough natural gas available there?
15	MR. WHITE: No. I just want to make sure
16	DEP is happy or the approving authority is happy. I
17	know we used to always use diesel. I've been told
18	that natural gas is acceptable at this time, and I
19	just want to confirm that before we tell you.
20	MR. SULLIVAN: That's fine. Thank you.
21	MR. WHITE: You're welcome.
22	This is the same plan, but it's just in
23	color, showing different utility lines going
24	throughout the site. Green is the storm water. Red

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1
    is the sewer. Blue is the water line.
             So as I mentioned, it will have the sewer
2
3
    line going to a pump station, off the site.
    blue, the water line loops throughout the system,
4
    and the green is the storm water. All storm water
5
    will flow through water quality devices prior to
6
7
    entering the infiltration systems. So water will be
    considerably cleaner flowing off the site than it is
8
    today.
9
             Are there any questions?
10
11
             MR. SULLIVAN: I've got one more.
                                                 Your
    utilities, electricity and such, I assume they're
12
13
    going to be underground?
                         That's correct.
14
             MR. WHITE:
             MR. SULLIVAN: And you have multiple
15
    transformers throughout the site?
16
             MR. WHITE:
17
                         That's correct.
             MR. SULLIVAN:
                             That's it.
18
19
             MR. WHITE: Thank you.
20
             CHAIRMAN SALTZMAN: Questions? There may
21
    be more where that came from. Anybody else?
22
             MR. SHULMAN: What kind of cleaning devices
23
    are --
                         It's a water quality cleaning
24
             MR. WHITE:
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1 device. It's an underground -- basically an 2 underground tank with baffles in it. But I think 3 we're proposing it's from a company called CDS on this project. I know there's similar ones like 4 Stormceptor is a similar name. 5 And what it does is it takes out the TSS or 6 7 total suspended solids. You have to remove at least 80 percent total suspended solids. So it has a 8 settlement tank. It also has a baffle to keep oil 9 from flowing out, any type of oil or gasoline that 10 gets in the water. 11 MR. SHULMAN: And that has to be 12 13 maintained? MR. WHITE: It does. It has to be 14 maintained, that's correct. And the maintenance is 15 based on how much sediment you're getting into the 16 tank. So what they typically recommend is, after 17 the first three or four months you go and check the 18 sediment depth and see and establish a maintenance 19 schedule. 20 21 MR. ROTONDI: I've got one question. When 22 I talked about the French drain, how much footage of 23 stone, of crushed stone do you put under the tank? Because I'm surmising the tanks fill up. Once the 24

1 stone fills up, then the stone lets the water out as 2 the ground gets dry, because I'm familiar with 3 French drains. But how deep is the pit of the 4 stone? MR. WHITE: These U-shaped structures vary 5 in size. I believe we're using 30- and 36-inch 6 7 sized structures. There'll be either 6 inches or 1 foot. The manufacturer recommends a minimum of 6 8 inches of stone underneath these. We have it 9 varying between 6 inches and a foot. 10 11 We're also using a filter fabric. So you put the filter fabric down first, put the crushed 12 13 stone, put the tanks in, bury them, put crushed stone over and wrap the filter fabric around the 14 15 top. 16 MR. MAHONEY: We can show a detail on those slides next time to help maybe --17 MR. WHITE: Yes. I think it's better if we 18 show a detail. It's very difficult to explain. 19 20 CHAIRMAN SALTZMAN: Mr. White, you're not 21 going anywhere, right? We're going to be seeing 22 more of you? 23 MR. WHITE: Yes, you are. 24 CHAIRMAN SALTZMAN: Now, I have a quick

question for you, perhaps a topical question but a hypothetical. Let's say that this Hurricane Joaquin shows up and it gives us 8 inches of rain. Describe what would happen on that site if there was an extra inch of rain.

MR. WHITE: Okay. On this particular site, very, very large wetland areas are described north and west. That area is very flat. So that will act as like a detention basin. So it will take a lot of rain to fill that -- to get that thing to raise up to a high level where it's going to flood a large area.

So it gets -- what you're saying is what happens if you get an 8-inch rainstorm, some raising of 7. The storm system will work up to 7. Over 7, the water will flow out at a faster rate than existing.

The wetland area will slowly fill up with water. Since the area is so large, it will be a minimal raise. I mean, we're not talking feet.

We're talking -- if we get an extra inch, the wetland area may raise an extra inch or two.

CHAIRMAN SALTZMAN: Would there be flooding in the adjoining areas on something like that?

1 MR. WHITE: Well, adjoining areas, if the 2 wetland goes through, may. There are quite a few 3 different properties. So any place where the wetland is adjacent to, the water level will come 4 That happened on the existing conditions. 5 up. CHAIRMAN SALTZMAN: Right. 6 7 Does anybody have other questions? MR. DUFOUR: I have a question. How many 8 9 of these tanks are proposed? And where is the 10 location as to where the holding tanks will be? they more towards the inner or are they on the 11 12 perimeter? 13 MR. WHITE: They're on the perimeter. 14 There's a system here, here, here, here and here (indicating). 15 16 CHAIRMAN SALTZMAN: How high are they? MR. WHITE: Next time I'll bring a detail 17 to show you. I mean, you can buy them any size from 18 about 18 inches up to about 48 inches. We're 19 using -- I believe we're using 30 and 36 inches, if 20 21 I remember correctly, on this site, on this project. 22 They're very commonly used now in storm water, for 23 this type of system of storm water retention/ detention systems. 24

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1	MR. SHULMAN: It looks like you have them
2	located underneath the parking areas?
3	MR. WHITE: They're all underneath the
4	parking areas.
5	MR. SHULMAN: So they're not mounded up
6	like a septic system?
7	MR. WHITE: No. No.
8	MR. SHULMAN: You used the comparison
9	earlier, but it wouldn't be a septic field mound
10	like you see up in New Hampshire or something.
11	MR. WHITE: Yes. These are all above
12	groundwater, because we did soil testing to
13	determine groundwater elevation.
14	CHAIRMAN SALTZMAN: Thank you, Mr. White.
15	Unless anybody has another question, I
16	believe Mr. Houston is here tonight and has a
17	presentation.
18	MR. HOUSTON: Thank you, Mr. Chairman.
19	For the record, my is Tom Houston. My
20	firm, PSC, Professional Services Corporation, was
21	engaged by the Board of Appeals to do a peer review
22	of this project.
23	In terms of my background, I am a member of
24	the American Institute of Certified Planners; I am a

Registered Professional Engineer in the Commonwealth of Massachusetts. My professional practice involves a good deal of peer review work. I have completed the peer reviews on over 500 site and subdivision projects and over 70 Comprehensive Permit projects.

With respect to the drawings that were prepared by H.W. Moore & Associates, in general we find that they comply with standard engineering practice. They're duly signed and sealed by a Registered Professional Engineer, and they're developed at a level of detail beyond that which we see on some Comprehensive Permit projects. So fundamentally they're a good set of engineering drawings.

As was mentioned previously, we had just completed our peer review, so neither the Board members nor the Applicant has had a chance to really review our comments in detail, and we have a fair number of comments.

So I thought the most productive thing that we could do this evening is just hit some of the more important issues that we have identified during the course of our peer review.

The first one, and I think it's the most

difficult, admittedly, because it may affect -- it will affect the number of units that will be constructed on the site, and that's the issue of building height.

2.4

When we first look at a project, we try to identify what are the really critical issues, and I think from the community's point of view, an obvious concern is the fact that we have five-story buildings located in a single residence district.

The design of the project considers this issue and addresses it with respect to the views from Franklin Street. From the Franklin Street side, there are intervening townhouse structures which sort of make a visual transition from a residential scale, with the larger buildings in back.

But that same approach was not used with respect to the easterly side of the site, where Gerald Street, Beacon Street, Ellen Road -- they're residential areas that have a clear view of the project.

And what sort of intensifies that problem is the fact that while these -- there may be 150 feet of vegetation between these buildings and the

adjacent residences. The problem is, particularly Beacon Street and Ellen Road, they're set up 40, 45 feet above the site. So you don't get the full effect of tree buffers because you're at an elevation where the trees aren't that effective.

2.4

So that is a very difficult issue. What we've asked the Applicant to do -- and I think we need to know what the numbers are that are derived from this exercise -- we've asked them in one case to step the height of the buildings; to have Building B and the easterly wing of Building C, which are the portions of the five-story buildings that are closest to those residential areas, we've asked them to limit the height of those buildings to two or three stories but suggested they could allow the buildings to increase in height towards the westerly side of the site. The other alternative that we've asked them to do is simply an all-townhouse alternative.

Now, I recognize that you will probably come out with a fair reduction in the number of units. I understand that has an economic implication, but I think it's an exercise that would help the Board in evaluating the project that's

before them.

2.4

Another kind of programmatic level design issue is the issue of buffer zones. The design as submitted does respect the significance of buffer zones in the sense that they have maintained the locally authorized 25-foot no-touch zone. There are no buildings or significant site alterations within the 25 feet that are closest to the wetland edge. However, the remainder of the buffer zone, the remaining 75 feet, is very extensively used. It contains parking, even buildings in some areas.

So we placed less emphasis on that in terms of the way we approached it. We didn't ask for an alternative that didn't use the buffer zones or whatever, because we simply identified it as an issue and suggest that the Board of Appeals interface with the Conservation Commission and get their input as to what would be an alteration of buffer zones that the Commission felt that they could condition in terms of an Order of Conditions.

So those are the most difficult issues, I think, on the project.

Another design issue I can mention -- one of the very nice aspects of the project, I think, is

the sort of enclosed landscaped courtyard that the buildings surround. I think that's a very nice site feature. I think the effectiveness of that is diminished by the east-west parking field that cuts through that area just to the south of Building C.

We mention that as an issue just to identify it as something we consider not desirable, but I don't think it rises to the level of concern of either the building height or use of the buffer zones. It is the Applicant's property. If that's the way they want to handle that parking field, that's fine, but we just identified it as a concern.

With respect to zoning, the property meets a lot of the bulk density controls of the zoning bylaws. The things that it doesn't meet, and these therefore are something that the Board of Appeals would have to waive if this project is to go ahead, first is the use -- multifamily buildings are not permitted in the residence district; the height of the buildings -- the maximum height permitted in the district is 30 feet; the signs are larger in number and larger in size than permitted in the district; and the parking ratio required is 2.1 spaces per dwelling unit, and that provided is 1.66.

So those are some of the more important zoning requirements that would have to be waived by The Board of Appeals to implement the project as submitted.

From a technical issue, we have a concern with the overall storm water management. The way the storm water was modeled for the site -- let me define a couple of terms that we used in our report. The buildings and the parking and everything else are sort of confined to the central part of the site, basically where the mulch piles and the material piles are now. We termed this area where all the active development occurs as the "development footprint."

And surrounding that on three sides -- the west side, the north side and the east side -- is a channel or ditch that was excavated by the Corps of Engineers reportedly back in the 1950s. So we call that the COE or Corps of Engineers channel, and it surrounds this development footprint.

So the way the storm water management analysis was done at the existing area where the development footprint will be was essentially modeled as one catchment, and it discharges into the

Corps of Engineers channel. And under the proposed condition, they break that development footprint area into five subcatchments, and there are five discharge points. And, again, they all discharge into the Corps of Engineers channel.

But we think the design point is incorrect.

It shouldn't be one point and five into a channel.

I think you have to look at the entire area as a whole.

The Corps of Engineers channel itself will function as a storm water basin. It will function as a detention basin. And the analysis that was done balanced the pre- and post-peak rates of discharge, but it did not balance and it is not correct that -- there is a volumetric increase. The volume of water going into this ponded area is more under the post development than the pre development.

So although normally mitigating peak rate is fine, if you discharge into a ponded area, you also have to mitigate volume, and that was not done.

So we're suggesting a substantial revision in the drainage analysis, where you model the Corps of Engineers channel essentially as a storm water basin. What's interesting about the basin, and this

is one of the few times I've ever encountered something like this, the outlet to the basin is a storm water pump, and there's actually a pump house that was built, operated and maintained by Weiss Farm. If you go out and look at it, it's probably no more than 4 by 4 foot by 8 foot high, but there's quite a volume of water that it handles.

And I think, if we have 264 new units and an unknown number of existing residences that could be impacted by the water level in this area, I think we need a state-of-the-art engineering pump to make sure that the water is properly lifted to the culvert that's underneath Franklin Street.

So we're talking about a pump facility that has alternating pumps, that has back-up power, that has controls, maybe staged discharges, because one of the requirements under the Massachusetts storm water policies is Storm Water Management Standard 2, which requires you to balance the pre and post rates of discharge from the site.

So in our view, the proper design point to measure pre and post development rates is in fact the discharge from this pump station. So that's kind of another reason to model the Corps of

Engineers channel as a basin, because the outflow from that basin is a pump station which has to be redesigned. So you need the flows into it to properly design it.

We also have a concern about the soils testing that was used to establish the seasonal high groundwater elevations beneath the infiltration basins that Mr. White described. All the analysis for the infiltration basins that were submitted -- it's fundamentally proper. They even modeled the mounding effects that will occur when the storm water infiltrates into the ground.

But a lot of the basins are pretty close to having a problem in the sense -- you're supposed to have -- under even the largest of storms, the groundwater can rise a bit under the basins, but it can't come up to the point where it actually touches the bottom of the basin, because if that happens, you lose all the capacity to infiltrate into the ground.

So that doesn't happen, but a lot of basins it's close. It comes up to within a foot or even six inches. So we have to be really sure that we have accurately characterized the elevation of

seasonal high groundwater here.

The Applicant has done an awful lot of testing on the site. They've had monitoring wells and things like that. But in a typical situation, you have a number of sources to determine what seasonal high groundwater is.

You could observe it when you dig a test pit. You can place monitoring pipes, which the Applicant has done. And you also can observe the soils in the test pits.

And a very accurate way of characterizing where groundwater is something called redoximorphic features. Fundamentally they're coloration in the soil that occurs every spring when the groundwater rises up to a higher level, and then once it subsides, that marks the soil color-wise.

Physically the soil rusts. So you get these little observable elements in the side wall of the test pits. They're called mottles. And the nice thing about mottles is -- the Applicant has measured the groundwater out here for a year in some of these test locations, measured them three or four times for a number of years in others. But the mottles have been developed over thousands of years.

So they give you the long-term picture of where the groundwater is.

So McPhail Associates did the soils evaluation out there. They're a very well-respected geotechnical firm, but for whatever reason, it happened that the particular person that logged the test pits out there was not a soil evaluator, and they didn't log mottles. So I would like to have that additional source of data just to make sure we know where the groundwater is.

So we've asked the Applicant to excavate some additional test pits in the location of the basins, excavate them with a soil evaluator and record the presence of mottles.

CHAIRMAN SALTZMAN: Mr. Houston, are you saying that the high-water mark left in the spring of this year was not recorded?

MR. HOUSTON: They recorded -- actually in, I think, a couple of locations they recorded three or four times during a one-year period. In other locations they've measured groundwater a few times over up to a three-year period. But I would like to have that additional level of comfort to have mottles characterized.

1 CHAIRMAN SALTZMAN: You would agree with me 2 that the high-water mark left after this past winter 3 would be a significant number? That would be an important number to know, would it not, given the 4 amount of snow that we had? Just looking at it from 5 the street, as you walk by it, there was a lot of 6 7 water. MR. HOUSTON: There was, but then the rains 8 9 kind of stopped. It was a relatively dry spring. 10 You had the snow melt, but in terms of record high groundwater elevations, this was not the year for 11 12 that. 13 CHAIRMAN SALTZMAN: That's surprising. And 14 I don't doubt that. You're talking about measuring the --15 16 MR. HOUSTON: You had a lot of snow melt, but after that it turned unseasonably dry. 17 There are a number of fire protection 18 issues here, everything from, you know, does the 19 Fire Department have a truck that can address fires 20 on the fifth floor -- is that a problem; knowing 21 22 whether the townhouse units have to have fire 23 suppression sprinklers; et cetera. A whole list of

things we asked the Applicant to coordinate with the

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1 Fire Department and get some written responses on. 2 We've asked for a second site entrance, 3 either permanent or temporary. Particularly if you're talking about temporary, I think that can be 4 pretty easily done. On one side of the site 5 entrance there is a Townhouse Unit 1, 2 and 3 and on 6 7 the other side it's Townhouse Unit 4, 5 and 6. They've already got driveways that go behind those 8 townhouses, and they're probably, I don't know, 80 9 10 feet or so away from Franklin Street. So if you're talking about a second temporary entrance, that can 11 be pretty easily done. 12 13 A second permanent entrance, if for some reason the Applicant wanted to do that, that would 14 require fairly significant modification of the site 15 plan. 16 17 But whether it's temporary or permanent, 264 units is a lot of people. 500, 700 people could 18 be on this site at a given point. So I think the 19 second site entrance is a reasonable measure of 20 21 safety, and I think it could be done with a 22 relatively modest level of effort. 23 Let me wind up on two things, maybe. is the parking. I'm glad to hear that Mr. Dirk and 24

1 the Applicant's traffic engineer have been 2 discussing this issue. But what we have on site is a parking ratio of 1.66. I would feel real 3 comfortable if it was, like, 1.8, but I think 1.66 4 is manageable. 5 I did look at the Institute of 6 7 Transportation Engineers' Parking Generation Manual, and unfortunately the Parking Generation Manual 8 doesn't have as robust a database as, for example, 9 10 the IET Trip Generation Manual. But for what it's worth, the ITE manual 11 says the average number of the demand would be 1.23 12 13 occupied spaces per dwelling unit. The 1.66 is above that; but the 85th percentile confidence 14 interval, there should be 1.94 parking spaces or 15 almost 2. And just again for reference, the number 16 of parking spaces required by zoning for a 17 multifamily structure in the Town is 2.1. 18 CHAIRMAN SALTZMAN: Would you be more 19 persuaded to a higher number if you knew that public 20 transportation was a mile in each direction, that 21 22 it's a mile to a bus in the square and a mile to the commuter rail station? So it would almost appear 23 that there aren't too many walkers in that group. 24

MR. HOUSTON: The sites that are in the ITE database vary significantly in terms of their -- of the infrastructure that surrounds them. And it sounds in this case like, you know, there are some mode choices; people can walk to places and then take public transportation. So, yes, that provides a level of comfort.

I'd be anxious to see the information provided to Mr. Dirk with respect to parking demand and other sites; but regardless, I think it's close enough that, in a worst case, it could be managed by a parking management plan.

And what I mean by a parking management plan is, setting up the deeds so that you can place -- excuse me, the rental agreements or deeds or whatever, setting up legal structures where you can limit the number of cars that residents can physically bring onto the site and park.

So I don't know that that would be necessary, but I think, rather than try to expand the parking with more structured parking and all that, I think you can probably do that effectively with a parking management plan, if you had to.

The final thing I was going to mention is a

significant bedrock excavation issue. We did note that -- it doesn't show up too well there, but kind of right in the center of the site is a pretty significant hill. It's probably 35 feet high -- oh, yes, right there -- 35 or so feet high, and it's all wooded.

And one of the reasons it may be there is apparently -- and we're basing this all only on a couple of test pits, so we don't know that it's characteristic of that entire hill. But bedrock is encountered very shallow on that hill, 2, 4, 6 feet down. So you may have bedrock extending 25 feet or so above the surrounding ground.

So if that turns out to be the case -- and to really verify that you need more geotechnical testing -- but that means a lot of blasting, which is an impactful issue, and it also unbalances Mr. White's efforts to have a balanced site, because unless you're going to allow rock crushing on the site, and I would not recommend that the Board allow that, you're going to blast this ledge and then you've got to take it off the site.

And instead of using what appears to be a hill that could be a borrow source to fill in the

1 lower parts of the site, you have to take all that 2 off the site and import fill to make up for that. 3 So that presence of ledge has a number of impacts. It increases the truck traffic -- because 4 you're bringing the ledge off, you're bringing fill 5 on -- and you have the spectrum of issues that 6 7 relate to blasting, from noise to potential structural damage and that type of thing. 8 9 So that's an issue I don't think --CHAIRMAN SALTZMAN: We have a question for 10 11 you. MR. SHULMAN: The question, why not allow 12 13 the rock crushing? 14 MR. ROTONDI: That's what I want to know. 15 MR. HOUSTON: Simply noise and vibration being impactful to the neighbors. That is a choice. 16 We had a site in Sharon where rock crushing 17 was a very significant issue. They were excavating 18 30 feet down into bedrock for this very large 19 foundation. 20 21 So, yes, that's a choice. If you put up 22 with the noise and vibration of the rock crushing, 23 which is of some months in duration, then you diminish the impacts of the trucking. It's probably 24

1 more economical for the Applicant to do it than to 2 have to take it off and replace it. So certainly it is a decision which a board 3 might come to; that is, more in everybody's interest 4 to cut down on the off-site truck traffic and allow 5 the rock crushing. It's just noise and vibration. 6 7 MR. SHULMAN: I just wanted to make sure I understand the -- I mean, I get the noise, but --8 9 MR. ROTONDI: You're saying the vibration. How much could it vibrate? I've been around a lot 10 11 of rock. 500 feet away, you don't feel any 12 vibrations. 13 MR. HOUSTON: Well, I must have been near 14 another rock quarry --MR. ROTONDI: I don't know. I've been 15 around a lot of rock ledge. I've been in that 16 business for a long time, my family, and I --17 MR. HOUSTON: I can't dispute your 18 19 experience. 20 CHAIRMAN SALTZMAN: What would you 21 estimate -- your question, I guess, is, how would we 22 ascertain what's down there? 23 MR. HOUSTON: Take a few more test pits. CHAIRMAN SALTZMAN: Is that agreeable? 24

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1	MR. MAHONEY: We need to review his plan,
2	the report in whole, before we can kind of
3	understand.
4	CHAIRMAN SALTZMAN: It could be a good
5	thing for you. I mean, it could be all dirt, right?
6	MR. MAHONEY: We're expecting it's not all
7	dirt.
8	CHAIRMAN SALTZMAN: So we'll discuss that
9	further. You're going to respond to it in its
10	entirety
11	MR. CICATELLI: We're going to respond.
12	CHAIRMAN SALTZMAN: That's fine. Unfair
13	question thrown to you right now.
14	Assuming for the instant that it was 25
15	feet of rock, what would the impact of removing that
16	be? And just over what period of time are we
17	talking, and how long would it take to blast
18	something that size?
19	MR. HOUSTON: I'll get back to you on that.
20	MR. ROTONDI: Not long.
21	MR. HOUSTON: What the impacts are, they're
22	not dissimilar to the rock crushing issue. You can
23	feel blasting when it occurs, and you can sort of
24	hear it.

1 Blasting isn't, you know, like a warfare 2 It's a very controlled process. set off small charges, and it's something that I 3 think the neighbors would understand and hear and 4 know that it's going on. 5 It's far enough away that chances are --6 7 one of the issues is that if you get vibration from blasting, it can affect the foundations of 8 structures, cause cracks. My thought is that it's 9 far enough away that that's not highly likely that 10 that would happen. 11 But, you know, if anybody has a well near 12 the property, and I don't think there are probably 13 private wells in the area, but anyway, if they do, 14 then the bedrock can be altered by the blasting so 15 it affects flows into wells. 16 I think maybe the larger impact is the fact 17 that you now have soil -- you now have earth 18 material that if you don't allow them to crush it, 19 it's the truck transport issue of taking it off and 20 21 then replacing it with imported fill. 22 CHAIRMAN SALTZMAN: Thank you. 23 MR. ROTONDI: I would suggest the Board take a ride down Fallon Farm, where they're doing 24

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1	rock crushing and blasting, and see how many
2	complaints have been logged, because that's a lot
3	bigger site than Weiss Farm.
4	CHAIRMAN SALTZMAN: Is it a residential
5	area?
6	MR. ROTONDI: Yes. It's Winchester, and
7	it's a bigger hill than this. You see the ledge
8	down there. And then you got the apartments across
9	the street. Check to see if how many complaints
10	for the rock crushing and the noise that it makes.
11	CHAIRMAN SALTZMAN: Must be silent
12	blasting.
13	You know, I just have to say, you know,
14	just as for tonight, I appreciate all of the experts
15	that have come here tonight. You know, we may not
16	show it, but we're walking out of here smarter than
17	we walked in.
18	I think really you've done everybody in the
19	room a service by your patience, by answering all
20	the questions that we've asked, and I just would
21	like to say thanks.
22	Thank you, Mr. Houston. Thank you, Mr.
23	Dirk, as well, as well as Mr. White. I know your
24	first name is Heather. I forget your last name.

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1	MR. SULLIVAN: Monticup.
2	CHAIRMAN SALTZMAN: Monticup.
3	But I think at this time it may be wise for
4	the Board to entertain a motion we've been
5	thinking for approximately two hours. I don't know
6	how much more we have in us. There's a fair amount
7	to digest, and we will be reconvening on a date
8	certain.
9	MR. SULLIVAN: Which will be the 20th.
10	So I would make a motion to adjourn the
11	meeting and reconvene as a continuation on October
12	20th at 7:30 p.m. in the same hearing room.
13	MR. SHULMAN: Second.
14	CHAIRMAN SALTZMAN: All those in favor of
15	adjourning at this time and reconvening on a date
16	certain, signify by saying aye. (Chorus of ayes)
17	those opposed? (No response)
18	All right. Well done. See everybody.
19	(Whereupon the meeting was
20	adjourned at 9:26 p.m.)
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1	CERTIFICATE
2	I, Carol H. Kusinitz, Registered
3	Professional Reporter, do hereby certify that the
4	foregoing transcript, Volume VI, is a true and
5	accurate transcription of my stenographic notes
6	taken on October 1, 2015.
7	
8	$Q \sim 1 \sim 1$
9	(au) N. Kusmity
LO	Carol H. Kusinitz
L1	Registered Professional Reporter
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